

*The world's
most widely used
trouble-free
lifetime product!*



Vitro board®

PORCELAIN STEEL CHALKBOARDS

REVOLVING,
REVERSIBLE,
VERTICAL &
HORIZONTAL SLIDING
CHALKBOARDS

- aluminum trim
- display cases
- cork tackboards



BENJAMIN

*Distributors located
in all principal cities
in U.S.A. and Canada*

**EDUCATIONAL EQUIPMENT COMPANY
CHALKBOARD AND TRIM COMPANY
11311 BUCKEYE RD. • CLEVELAND 4, OHIO**

VITRO-BOARDS are made by Benjamin Electric Mfg. Co. of Des Plaines, Ill., a subsidiary of Thomas Industries—a large, well-capitalized, responsible organization, for over 50 years a leader in the advancement of better lighting and visual aids. Their development in chalkboards exemplifies a pioneering spirit, by furtherance of better seeing and visual instruction for students and teachers. Benjamin has the latest, most modern facilities required for the special processing methods used in the manufacture of **VITRO STEEL BOARDS**.

From coast to coast, from South America, Panama, Hawaii and Canada. The world's most widely used trouble-free chalkboard under all climatic conditions. Its development and research, as is our policy, was done in our own laboratories and not at the public's expense. Its quality excels all other chalkboards on the market. The integrity of the company and guarantee is equaled by none.

INDEX

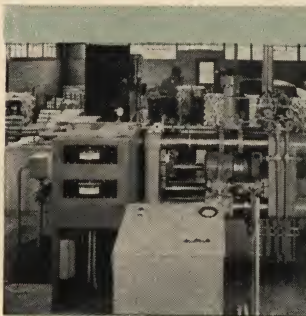
| | Page |
|--|---------------|
| Regional Plants | 3 |
| Materials and Test Data | 4 |
| Specifications | 5 |
| Composition Chalkboards | 6 |
| Corkboards Swing Leaf Boards Reversibles Chalk & Tackboard Revolving Chalkboards | 7 |
| Vertical & Horizontal Sliding Chalkboards Manually or Mechanically Operated | 8 |
| Display Cases & Bulletin Board Cases | 9 |
| Ready Framed Chalkboards & Tackboards | 10-11 |
| Details of Aluminum Framings | 12-15 Inc. |



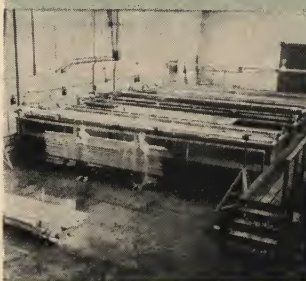
View of Benjamin Electric's laboratory which was the subject of a feature article in August, 1946, *FINISH*, entitled "We Built a Laboratory to Meet Our Needs." Our chalkboards are thoroughly tested and perfected in this laboratory to give the ultimate user a trouble-free product.

Guarantee

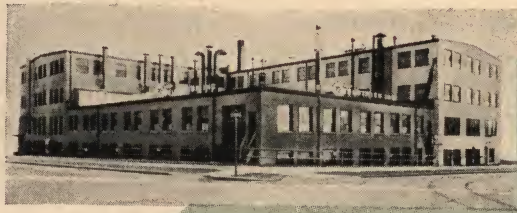
VITRO-BOARDS are guaranteed for the life of the building in which they are installed, providing their installation is in strict accordance with the distributor's written specifications and recommendations. This guarantee extends only to the replacement of the panel installed in the original building and does not include the cost of removal or reinstallation.



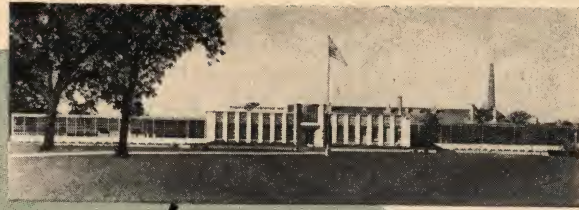
Two extrusion presses, 1250 ton and 530 ton, automatic puller, walking cooling table, heat treating and shipping facilities. We are one of the most completely equipped extruders in the chalkboard trim business.



Prompt delivery on your anodizing requirements. Satin, bright and color finishes to Alcoa Standards.



Sheboygan, Wisconsin



Fort Atkinson, Wisconsin



Burlingame, California



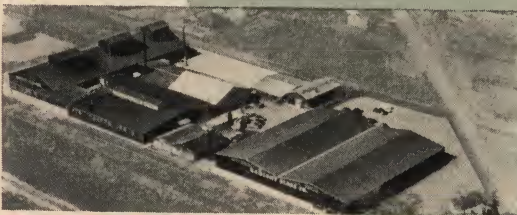
Toronto, Canada



Los Angeles, California



Brooklyn, New York



Fort Smith, Arkansas



Louisville, Kentucky



Des Plaines, Illinois



Hopkinsville, Kentucky

THOMAS INDUSTRIES INC. . . the wide range of our expanding line of products is unique in all America

Benjamin Chalkboards
Benjamin Audible Signals
Wright Power Blade Saws
Sprayit Paint Spraying Equipment
Ideal Bathroom Cabinets
Radiant Blown Glass
Contract Sales Division
Export Sales Division

RESIDENTIAL

Moe Light—for the discriminating home owner
Star Light—high in style, low in price
Enchante—lighting fixture originals
California Series—California inspired

COMMERCIAL

Benjamin—for schools, stores, offices and industrial lighting
Moe Light—inspiration lighting
Enchante—for smartest shops and clubs
California Series—for western decorating

CONTRACT

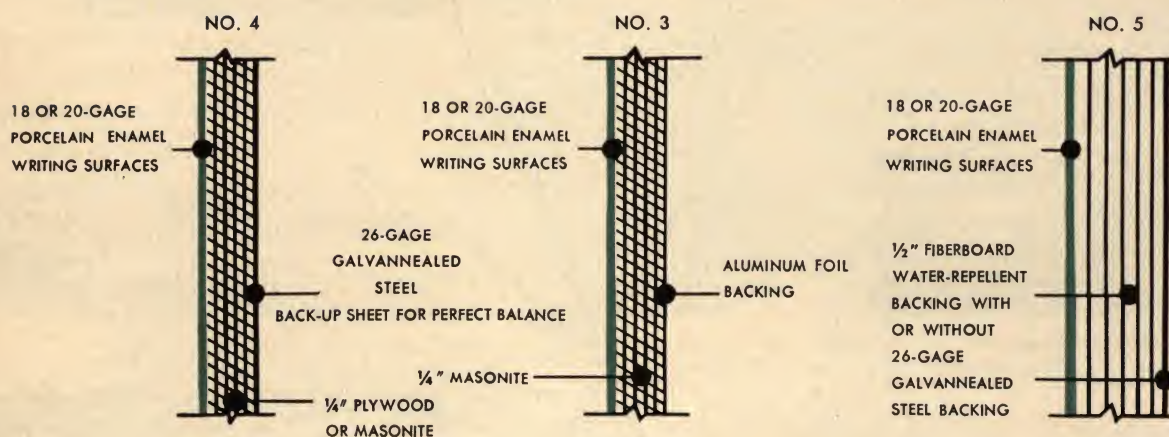
Moe Light
Benjamin

EXPORT

Moe Light
Benjamin

**EDUCATIONAL EQUIPMENT CO.
CHALKBOARD AND TRIM CO.**

VITRO-BOARD is made of an abrasive porcelain material fused into steel and containing highly improved, acid-resistant qualities. The porcelain covers the entire board, forming an unbreakable, moisture-proof seal. The individual particles that make up this surface make possible a stronger, harder, smoother, suede-like finish of extreme evenness. It is superior to any other chalkboard and will last a lifetime.



SELECTED STEEL 20 gage is the most economical value in Benjamin chalkboards. Most other products made at Benjamin use 20-gage steel, since all chalkboard steel sheets cannot be used for a perfect writing surface; the choice sheets of steel are selected to be made into chalkboards. The others are channeled into smaller items where visual inspection is not as critical.

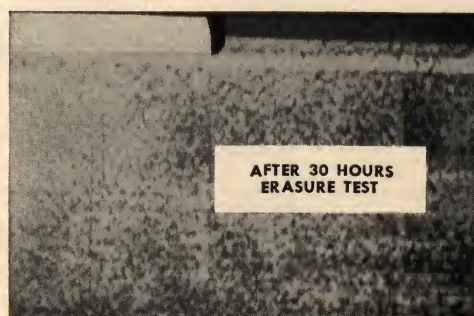
| sizes in inches | | | |
|--|---------|-----|-----|
| 18 OR 20 GAGE LIST OF COLORS | | | |
| medium green dark green black white gunmetal gray blue tan | heights | 36 | 48 |
| | | 42 | 60 |
| | | 48 | 72 |
| | lengths | 90 | 84 |
| | | 96 | 90 |
| | | 108 | 96 |
| | | 120 | 108 |
| | | 132 | 120 |
| | | 144 | 132 |

LABORATORY TEST PROVES:

NO TEXTURE CHANGE IN VITRO-BOARD AFTER 126,000 ERASER-STROKES!

In this test, conducted by an independent commercial testing laboratory, a standard chalkboard eraser was used. It was weighted down with a seven-pound weight, and loaded with precipitated calcium carbonate (ground-up chalk). This eraser was then drawn across the Vitro-Board surface 126,000 times at a rate of 35 cycles, or 70 strokes, per minute. This is the equivalent of 30 hours of continuous

chalking and erasing. To show any change in the quality of the Vitro-Board writing surface after this test, the board was cleaned, and then a piece of chalk, laid lengthwise, was drawn across both the tested and original surface. As illustrated by the "before and after" photographs below, practically no change in texture or ability to pick up chalk could be noted.



Unretouched photographs, enlarged to natural size, show chalk image on VITRO-BOARD surface before (left) and after (right) 126,000 strokes with weighted-down eraser.

specifications

I. general

Vitro-Board Porcelain Steel Chalkboards as manufactured by Benjamin Electric, a subsidiary of Thomas Industries. The chalkboard sheets shall meet all the requirements of the Porcelain Enamel Chalkboard specifications (P.E.I.) S-104, August, 1956.

II. porcelain on steel face sheet

A. Metal

The metal of the face sheet shall be 18-, or 20-gage (select gage) steel suitable for the performance requirements as specified herein, and thoroughly cleaned and pickled in accordance with good porcelain enameling shop practice before application of the coatings.

B. Porcelain Enamel

The finish or coating shall be porcelain enamel, defined substantially as a vitreous inorganic coating bonded to the metal in accordance with P.E.I. Code.

C. Ground Coat

The ground coat shall be applied to cover all areas of each unit on the face side. Ground coat shall be fired separately before the finish coats are applied.

D. Finish Coat

Finish coat shall be a matte porcelain enamel, defined as a vitreous inorganic material bonded to the ground coat, with a uniform surface texture. The hardness as measured by the Moh hardness scale shall not be less than 7. Without specular glare or reflection. The gloss variation, when measured by a 45-degree photovolt gloss meter, shall not exceed 3 units. The surface shall resist wear, abrasion, shock and scratches, and shall not crack, craze or lose its color, warp, buckle or delaminate during the period of guarantee. The gloss shall not increase by more than three (3) units when subjected to the wearability test of thirty (30) hours (126,000 strokes) specified under "Test Procedures", Paragraph 7 of the P.E.I. Chalkboard Specification, P.E.I. S-104.

The total reflection factor shall be within the range of 15 percent to 20 percent, as recommended by the A.I.A. Bulletin 31-F28.

III. core material

3. Core material $\frac{1}{4}$ " masonite with aluminum foil back.
4. Core material $\frac{1}{4}$ " exterior plywood with 26-gage galvanized steel back.
5. Core material special $\frac{1}{2}$ " fiberboard with approved water-repellent back.

IV. lamination

Pressure laminated not less than 72,000 lbs. per 1 sq. ft. The bond and sheer strength of the adhesive, when set, shall exceed the strength of the core material.

V. lengths

All chalkboards 12 ft. or under shall be in one piece. The laminated panel shall be flat within $\frac{3}{16}$ " along a line 8'0" when the panel is laid horizontally on a flat surface.

VI. aluminum "clip-on" trim

Furnish and install complete (as per details) aluminum trim, chalk trough, map and display rail, etc., for all chalkboards, display and bulletin boards on walls, wardrobes, etc., in all classrooms, special rooms, corridors, offices, etc., where indicated on drawings.

All aluminum metal trim shall be dull aluminite finish.

All aluminum for trim shall be extruded shapes of approved sections and of thickness as indicated on drawings. All trim and chalk troughs shall be in single lengths, straight, true and free of defects. Up to 24' in one length.

Sliding map hooks, clips and map winders for map and display rail, and flag holders shall be furnished as specified (specify quantities).

VII. grounds

Furnish and erect continuous tempered aluminum grounds, straight and true, blocked out with shims for proper alignment so face of ground becomes finish plaster line, securely fastened at intervals not over 12 in. on centers under chalkboards and not over 16 in. elsewhere. Where partition walls are to be unplastered, grounds shall be installed in such a manner as to receive extended trim for unplastered walls.

VIII. clips

Trim and chalk trough clips, of approved sizes, thicknesses and spacings, shall be of tempered steel plate formed to receive clip-on trim and to lap edges of chalkboard not less than $\frac{1}{4}$ in. Clips are to be placed adjacent to all joints and adjacent to all corners at horizontal and vertical sections and at intermediate points not over 16 in. on centers. All mitered corners must have corner plates inside the trim to hold a perfect 45° miter indefinitely.

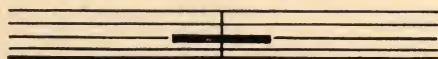
After chalkboards and corkboards have been installed, aluminum trim shall be completed by erecting all chalk troughs and trim. All work under this heading shall be erected by carpenters or under supervision of the manufacturer of trim.

All above grounds and trim shall be "clip-on" all-metal trim as manufactured by Educational Equipment Company.

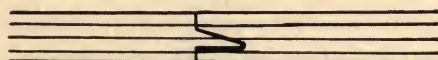
COLORS: Standard Green
Dark Green
Black
Gunmetal Gray
Charcoal Gray
Blue
Tan



$\frac{1}{2}$ " and $\frac{1}{4}$ " composition with joint strip



$\frac{1}{2}$ " composition with steel spline



$\frac{1}{2}$ " self-leveling tongue and groove joint

Superite Cement Asbestos Chalkboard, strong, rigid panel $\frac{3}{16}$ " and $\frac{1}{4}$ " thick. Alkali-Proof Color Pigment, Silicon Carbide Abrasive. Chemically treated to withstand drastic climatic changes. Surface will not shatter. Available in lengths up to 10', widths $3\frac{1}{2}$ and 4'.

Superite composition chalkboard is composed of a plastic, containing fine, uniformly suspended silicon carbide, evenly applied to the specified thickness and baked on to provide a smooth, even finish. The tempered hardboard base panels are made from selected shredded hardwood fibers, integrally waterproofed to resist moisture, and fabricated under hydraulic pressure.

The writing surface, which is free from specular glare or reflection, is hard and will resist wear and breakthrough from chalk abrasion. Repeated washing will not harm this wear-resistant writing surface.

Superite colors are standard green and dark green, in eye-saving shades that give excellent visibility and contrast. Other colors are available on special orders.

Superite in $\frac{1}{2}$ " thickness is fabricated with two $\frac{1}{4}$ " layers of tempered fiber hardboard. The writing surface is .012" to .014" thick. Superite is also available in single $\frac{1}{4}$ " thickness, which requires our standard metal trim for writing joints.

Sizes use the same detail as Steel chalkboard shown on pages 12, 13, 14 and 15.

specifications

| no. | type | description | thickness | width | length | weight per sq. ft. |
|-----|------------------------|---|------------------|----------------------|--------|--------------------|
| #1 | Standard Structo-Board | U.S. Gypsum Structo-Board, wood fiber body with durable chalkboard surface. | $\frac{1}{4}$ " | 3'0" 3'6" 4'0" | 12'0" | .8 lb. |
| #2 | Tempered Structo-Board | U.S. Gypsum Structo-Board, wood fiber body specially treated with tempering oil, polymerized by baking to increase hardness and reduce moisture absorption. | $\frac{1}{4}$ " | 3'0" 3'6" 4'0" | 12'0" | 1.0 lb. |
| #3 | Standard Structo-Board | Composed of two sheets $\frac{1}{4}$ " Standard Structo-Board laminated under pressure. Available with tongue and groove joints or H Bars. | $\frac{1}{2}$ " | 3'0" 3'6" 4'0" | 12'0" | 1.6 lbs. |
| #4 | Tempered Structo-Board | Composed of two sheets $\frac{1}{4}$ " Tempered Structo-Board laminated under pressure. Tongue and groove joints or H Bars. | $\frac{1}{2}$ " | 3'0" 3'6" 4'0" | 12'0" | 2.0 lbs. |
| #5 | Presdwood | Chalkboard body composed of Masonite standard Presdwood panels with chalkboard surface. | $\frac{1}{4}$ " | 3'0" 3'6" 4'0" | 12'0" | 1.5 lbs. |
| #6 | Tempered Presdwood | Masonite Tempered-Presdwood Panels are manufactured with special tempering liquid that is polymerized by baking. This process reduces rate of moisture absorption and increases resistance to abrasion seven times. | $\frac{1}{4}$ " | 3'0" 3'6" 4'0" | 12'0" | 1.6 lbs. |
| #7 | Tempered Presdwood | Two sheets of $\frac{1}{4}$ " Tempered Presdwood are laminated under pressure to form extremely strong, rigid and waterproof panels. Tongue and groove joints or H Bars. | $\frac{1}{2}$ " | 3'0" 3'6" 4'0" | 12'0" | 3.2 lbs. |
| #8 | Cement Asbestos | Chalkboard base is a cement asbestos fireproof panel with an extremely small expansion rate. | $\frac{3}{16}$ " | 3'0" 3'6" 4'0" | 10'0" | 1.8 lbs. |
| #9 | Cement Asbestos | To prevent alkalis in body of chalkboard from attacking surface, a sealing process is used. | $\frac{1}{4}$ " | 3'0" 3'6" 4'0" | 10'0" | 2 lbs. |

CORKBOARD

Educational Equipment Company furnishes the finest quality 1/4" cork reinforced with burlap backing, in standard range of colors.

Cork installations can be made to suit any requirement in combination with Vitro-Board and Superite Chalkboards as

shown on details. Cork also makes an excellent bulletin board when cemented to smooth plaster, masonite or other wall surfaces.

Corkboard can be furnished in roll lots 4' or 6' wide in lengths up to 90'.

swinging leaf board

Panels swing 180°. Available in combinations of chalkboards, tackboards and movie screens. Fabricated in units of 2 to 6 leaves. All exposed parts around chalkboards are of anodized aluminum.

SIZES: 36" x 36" 42" x 42"
36" x 42" 42" x 48"
36" x 48" 48" x 48"

revolving roll-a-way chalkboard

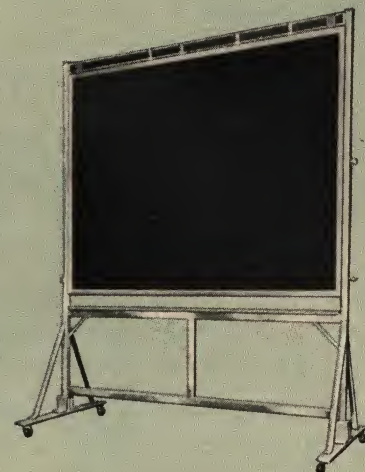
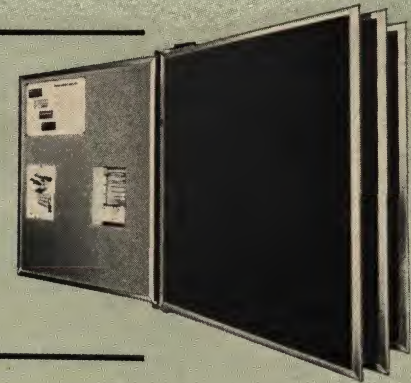
porcelain steel chalkboards — 1. Porcelain steel chalkboard—surfaced on both sides. 2. Porcelain steel chalkboard—surfaced on one side and tackboard on the back.

movie screen — 1. Ivory porcelain steel chalkboard—surfaced on one side and standard porcelain steel chalkboard on back. 2. Ivory porcelain steel chalkboard—surfaced on one side and tackboard on the back.

frame—All anodized extruded aluminum—dull satin finish or painted.

ball-bearing centers — Pivoted on two center points so that either side may be used without necessity of moving entire stand.

SIZES: 42" x 60" 48" x 72" 42" x 96"
48" x 60" 42" x 84" 48" x 96"
42" x 72" 48" x 84" or any other special size

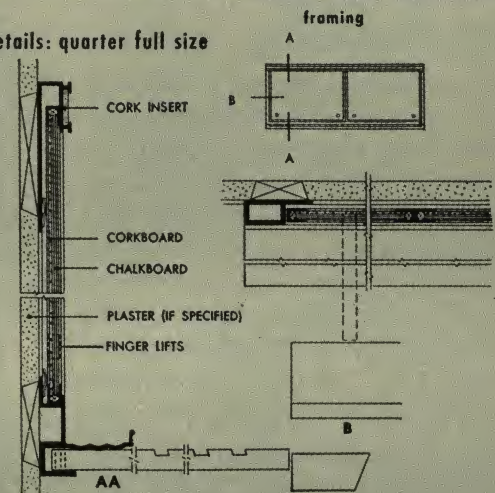


reversible easel chalk and tackboard combination

Multi-purpose reversible boards shall be made of extruded aluminum anodized framing, with map and display rail head section. Bottom chalk tray section shall be equipped as detailed and provided with arm brackets of aluminum and notched for three different positions. Removable paint trays shall be attached to the arms. The arm brackets are to pivot into a concealed position beneath the chalk tray when not in use.

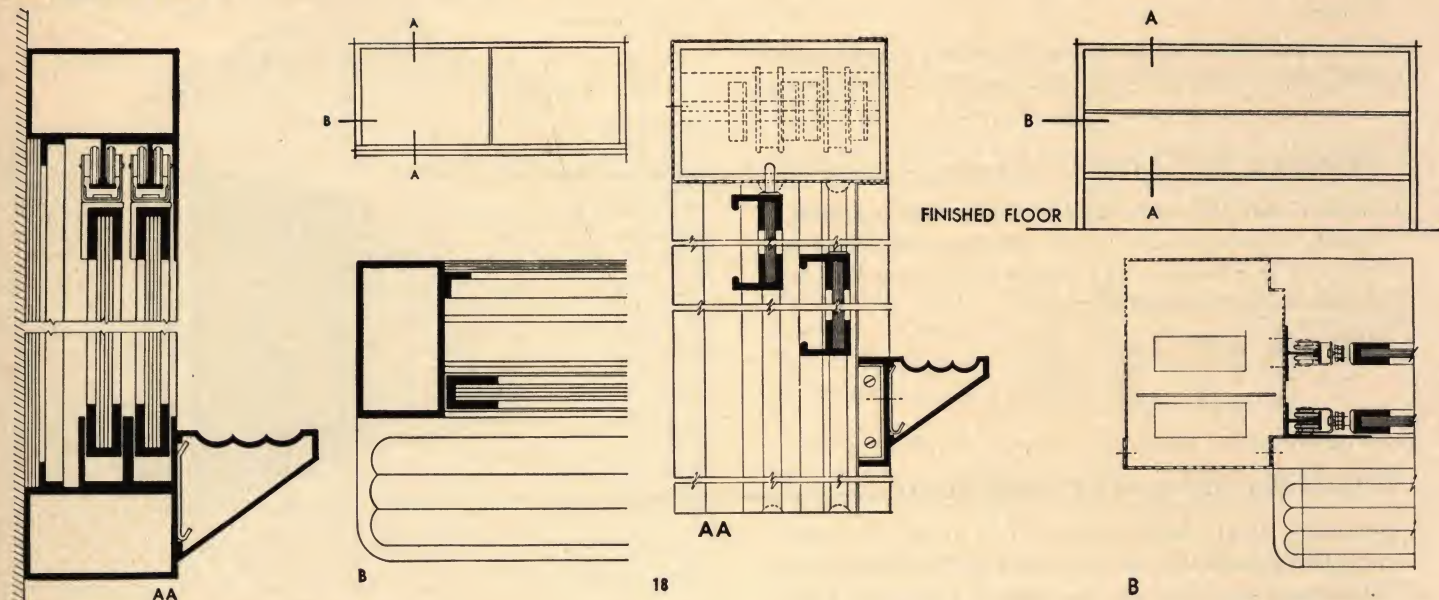
SIZES: 36" x 36" 36" x 48"
36" x 42" 42" x 48"
42" x 42" 48" x 48"

details: quarter full size



Vertical sliding board

details: half full size



sliding chalkboard

Either horizontal or vertical sliding chalkboards can be furnished.

Horizontal: Horizontal sliding chalkboards are made of anodized tubular aluminum framing. Aluminum frames and aluminum tracks have ball-bearing nylon rollers. Ease of operation is assured by modern overhead-type hardware.

Either chalkboard or tackboard sliding panels may be used. Fixed chalkboard or tackboard panel behind the sliding panels is optional. It may be replaced with a projection screen.

Vitro-Board porcelain steel chalkboards are used for standard construction.

Vertical: Vertical chalkboards are manually operated and counterbalanced. They are constructed of aluminum or steel casing and use reinforced extruded chalkboard frames and tracks. Chalkboards are attached to the counterbalancing lead weights with a sprocket chain passing over ball-bearing sheaves. Chalkboard panels are operated independently of each other. The wall behind the chalkboard can be used for a projection screen when all leaves are in the lowered position.

Maximum recommended size of individual panels is 12' x 4'. Where larger panels are required, electrically operated units are recommended. Information on Electrical Sliding Chalkboard furnished upon request.

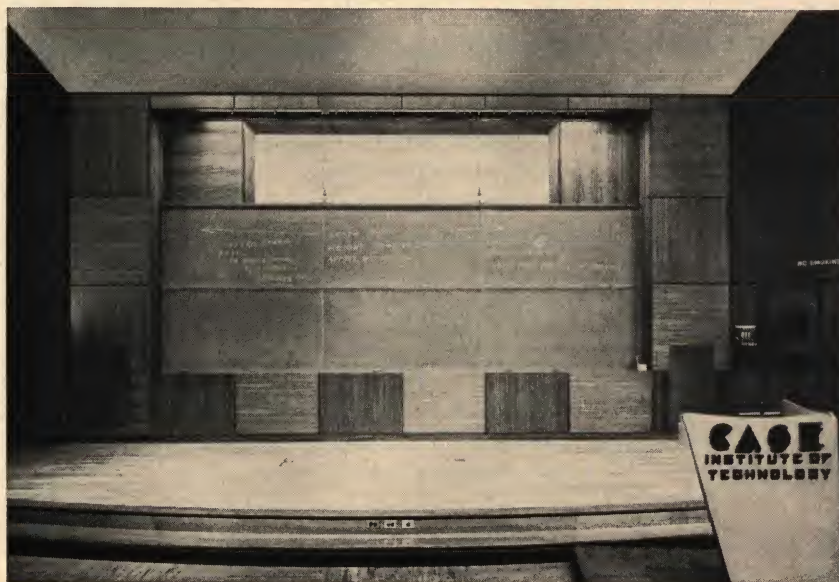
one of the largest sliding chalkboards

Photo shows recent installation of one of our largest Vertical Sliding Chalkboards for Case Institute of Technology, Cleveland, Ohio. This push-button controlled, electrically operated chalkboard is 24 feet long and 8'-0" high. The chalkboard can be readily raised to expose the permanent movie screen on the back wall. An additional feature of this unusual installation is the paneled curtain wall that is also electrically operated to conceal both the chalkboard and the screen.

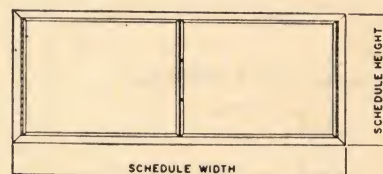
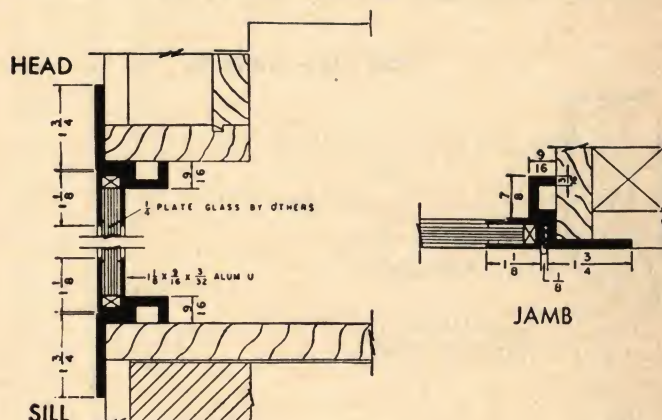
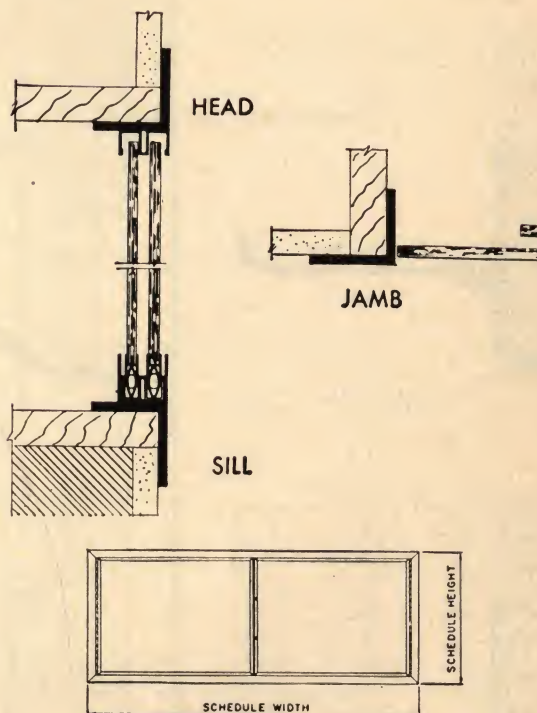
Architect: Small, Smith, Reeb and Draz, Cleveland, Ohio.

Cornell University

Electrically operated sliding chalkboard



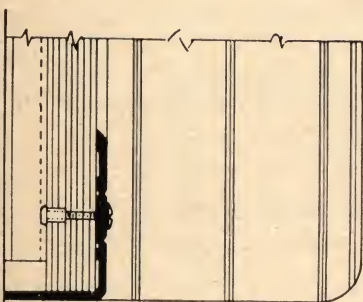
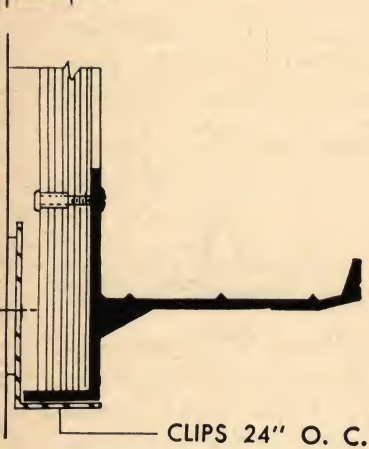
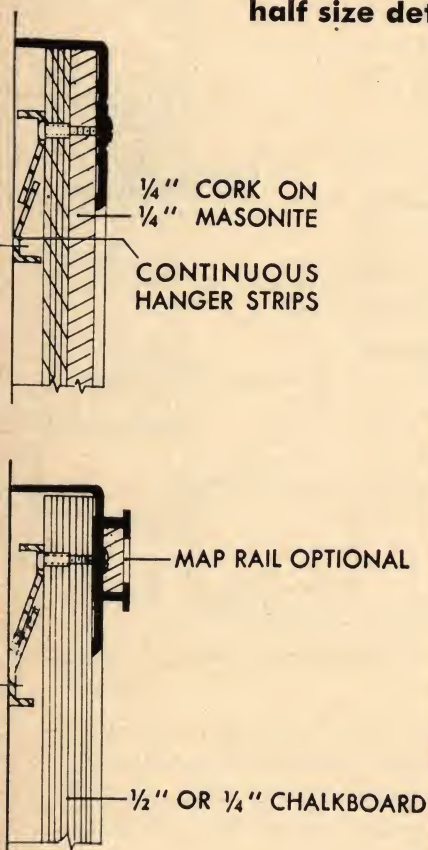
The image shows a framed architectural drawing of a Bulletin Case. The drawing is on a dark background and includes several views: a front elevation, a side elevation, and a detail view. The front elevation shows a rectangular case with a central opening and two side openings. The side elevation shows the profile of the case. The detail view shows a close-up of the central opening. The drawing is labeled "DESIGN No. 1" and "DETAILS BULLETIN CASE".

[illegible]

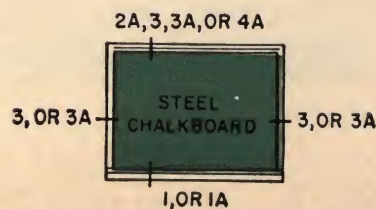
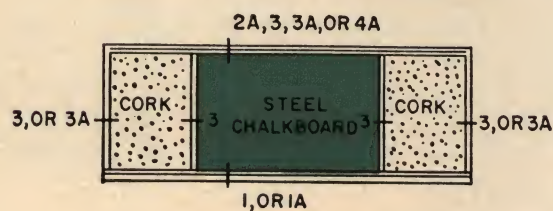
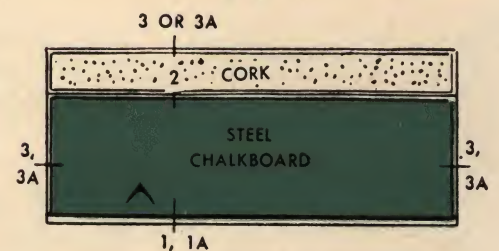
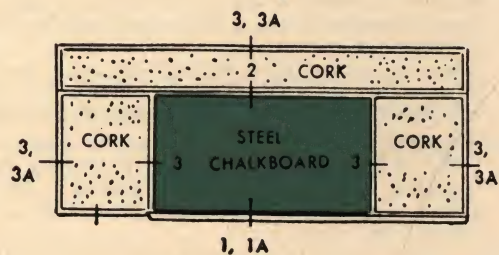
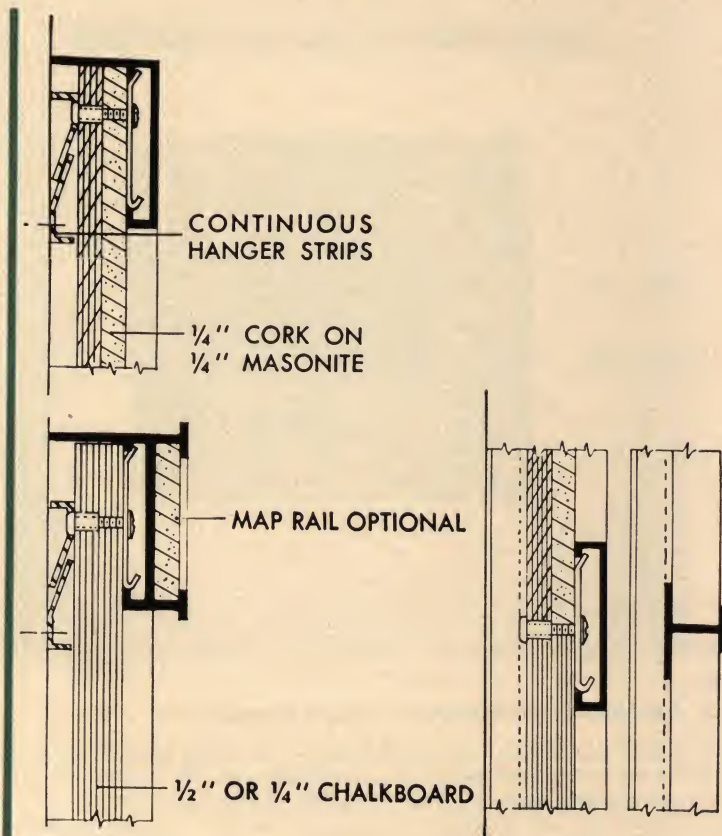
9

ready framed screw-on trim

half size details

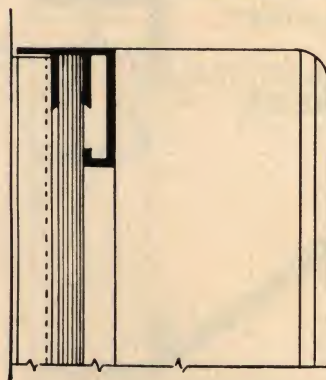
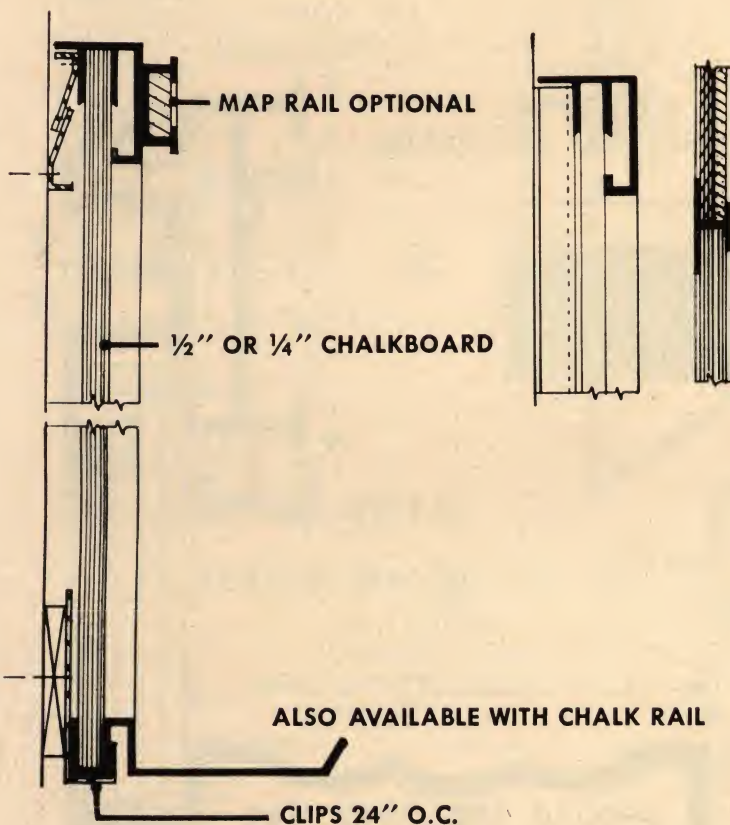
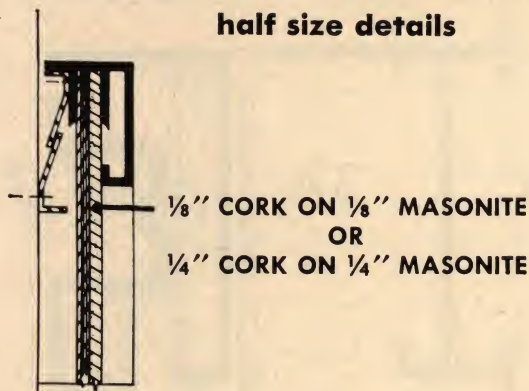


ready framed clip-on trim



ready framed narrow line trim

half size details

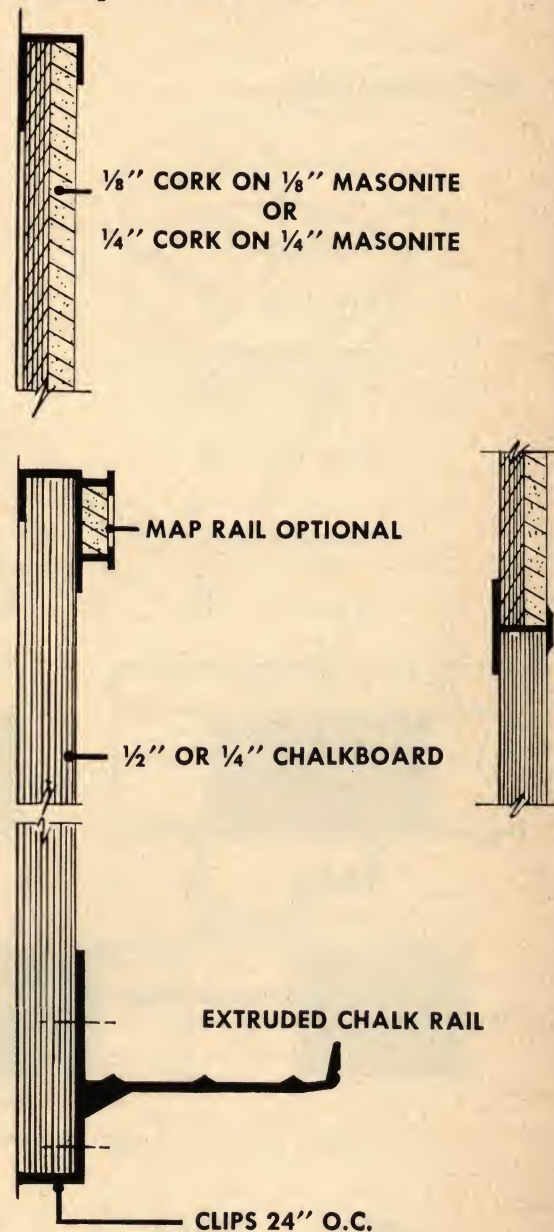


For speedy installations resulting in savings of time and money, the ready framed chalkboard is the answer.

These ready framed units are completely framed and finished at the factory and are delivered to the job ready for immediate installation.

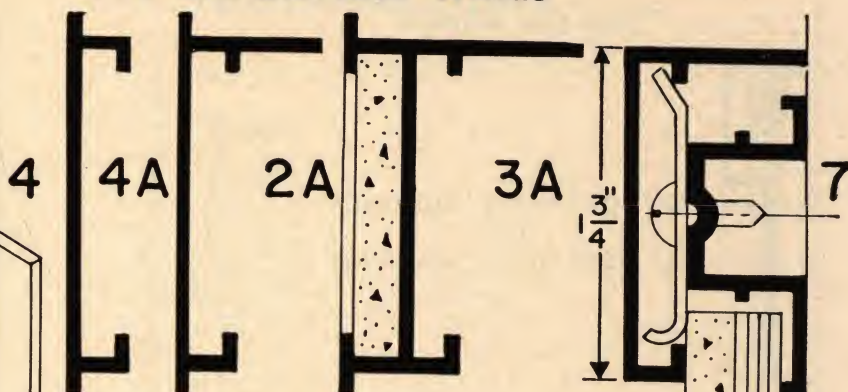
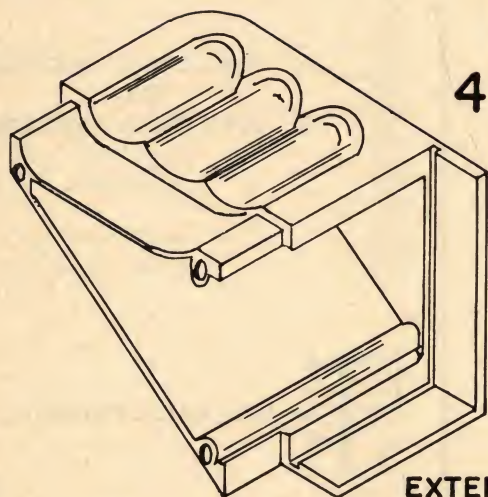
Submit sketch showing sizes of chalkboard area and/or side or top corkboard panels, if desired. Also state preference of one of the four trim types as detailed on pages 10 and 11.

ready framed trim

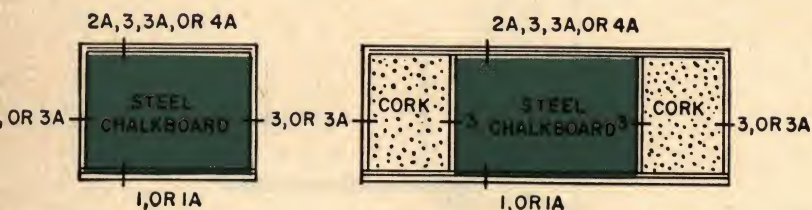
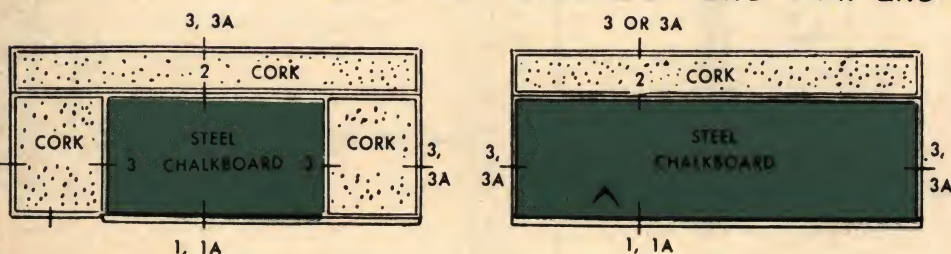


FOR UNPLASTERED WALLS

CLIP-ON TRIM



HALF SIZE DETAIL
EXTENDED END TRAY END PLATE



NOT TO TRUE SCALE

1/4" CORK
1/4" MASONITE

2

SETTING MASTIC

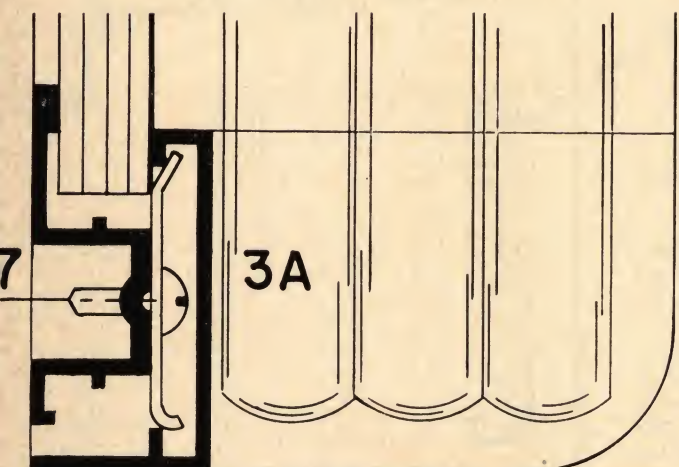
1/2" CHALKBOARD

2 3/4"

GROUND AND TRAY ONE
PIECE FOR ECONOMY

WOOD BLOCKING
IN CORNERS
ONLY

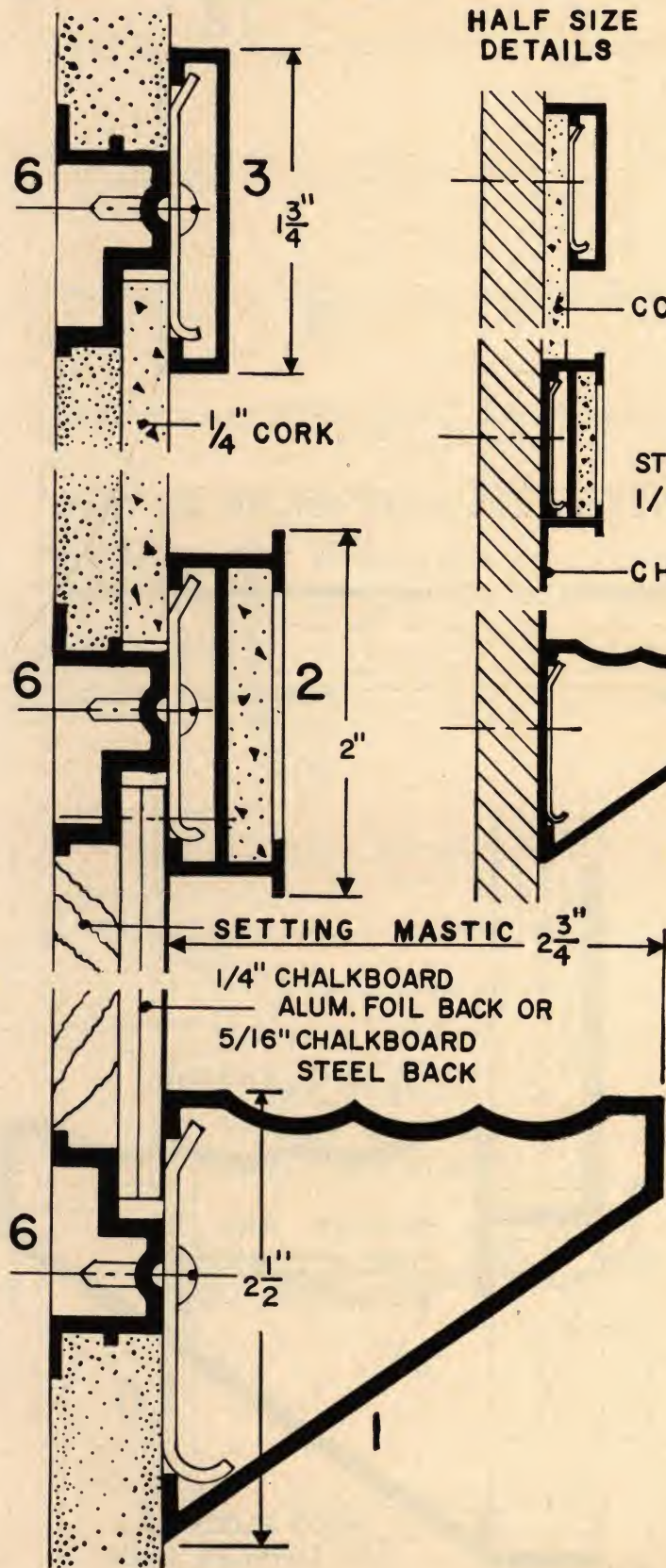
26



EXTENDED END TRAY END PLATE

SCALE-FULL SIZE

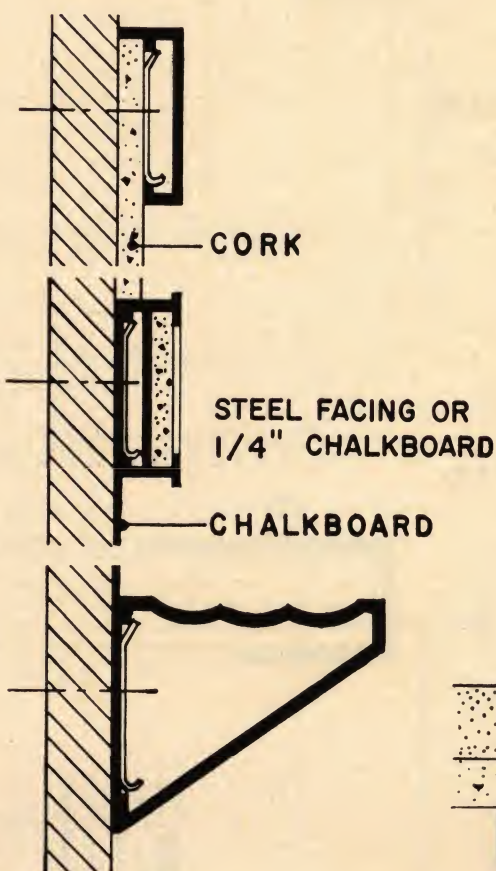
FOR PLASTERED WALLS



SCALE - FULL SIZE

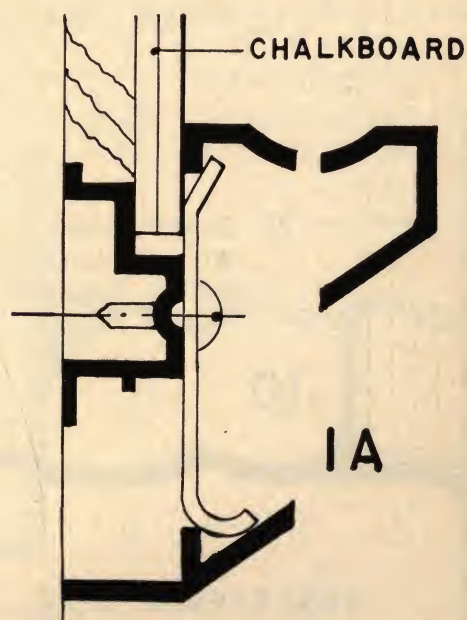
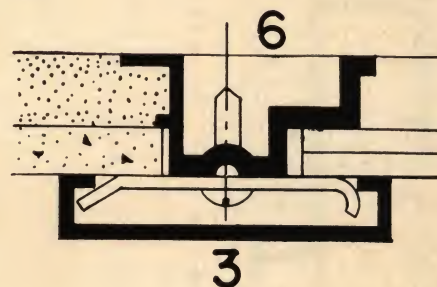
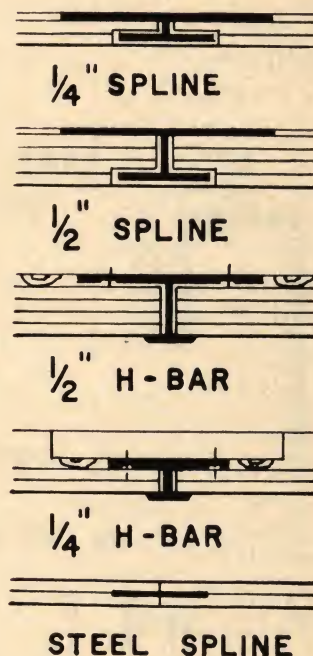
DIRECT TO WALL
APPLICATION

HALF SIZE
DETAILS



HALF SIZE DETAILS

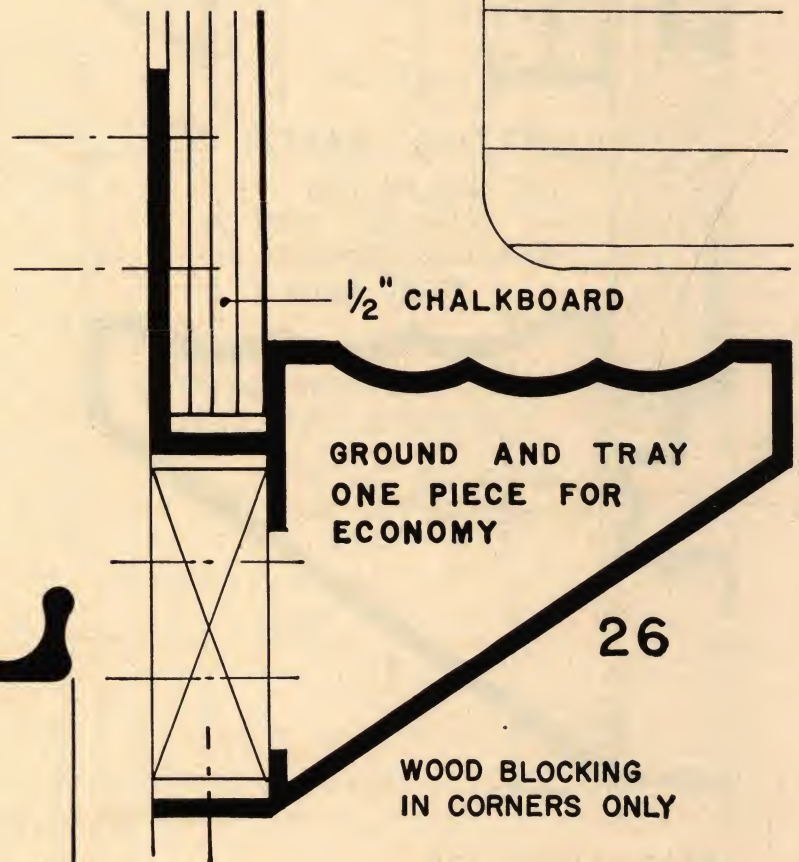
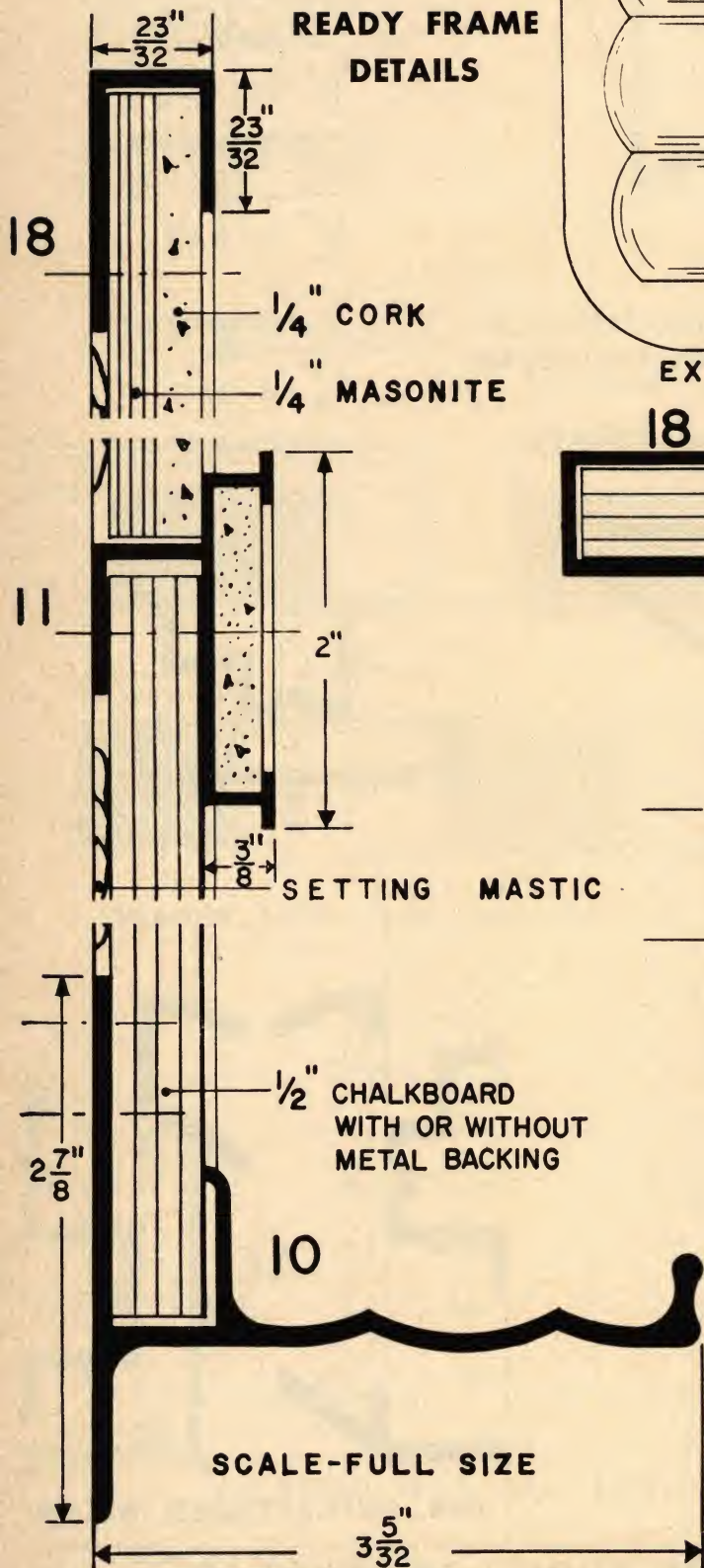
JOINING STRIPS



FOR UNPLASTERED WALLS

EDUCATIONAL EQUIPMENT CO.
CHALKBOARD AND TRIM CO.

full size
details

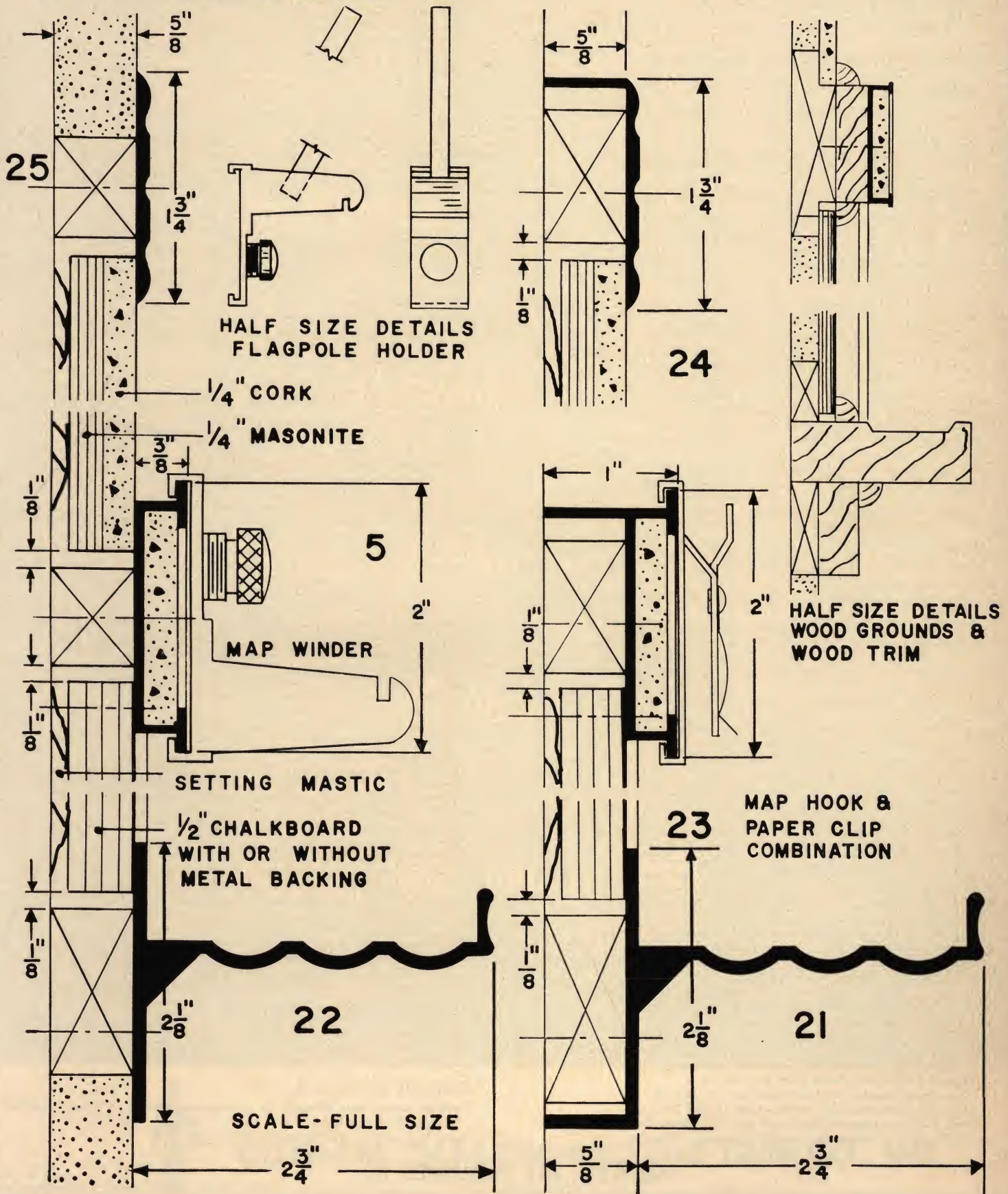


SCREW-ON TYPE ALUMINUM FRAMING

1/2" STEEL OR 1/4" CHALKBOARDS & CORK TACKBOARDS

1/4" WOOD GROUND DETAILS

23e
Ed



EDUCATIONAL EQUIPMENT CO.
CHALKBOARD AND TRIM CO.

THE IMPROVED LIFETIME PORCELAIN STEEL CHALKBOARD

the complete product from raw
metal to finished product
manufactured, laminated and
guaranteed by
BENJAMIN ELECTRIC MFG. CO.

typical installations

Jas. A. Britton—Greenfield High School, Greenfield, Mass.
 W. Parker Dodge Assoc.—Jr. High School, East Greenbush, N. Y.
 Alderman & MacNeish—Regional High School, Northboro, Mass.
 Alderman & MacNeish—Regional High School, Wilbraham, Mass.
 Walter M. Gaffney Associates—Elementary School, Otis Air Force Base,
 Falmouth, Mass.
 M. A. Dyer Co.—Belvidere School, Lowell, Mass.
 Bernhard Dirks—Elementary School, Turners Falls, Mass.
 MacConnell & Walker—3 Elementary Schools, Warwick, R. I.
 Barr & Linde—Hiawatha Elementary School, Essex Junction, Vt.
 Donaldson & Associates—Northwest School, Lucasville, O.
 Wm. Perry—St. Peter's School, Mansfield, O.
 Olson & Powers—Portage Park School, Gypsum, O.
 Moellenkamp & Associates—Berne Local School, Sugar Grove, O.
 Emerick & McGee—New Catholic High, Newark, O.
 White and Helm, Archts.—The Addison Village School, Addison, N. Y.
 Considine and Haskell, Archts.—St. Mary's Parochial School, Corning, N. Y.
 Holabird & Root & Burgee—Northwestern University, Evanston, Ill.
 Barry Byrne & Parks—Immaculate High School, Chicago, Ill.
 Meyer & Cook—Little Flower High School, Chicago, Ill.
 John C. Christensen—Taft High School, Chicago, Ill.
 Leo Strelka—Mount Assissi Academy, Lemont, Ill.
 O.S.M. Archts.—Air Force Academy, Chicago, Ill.
 Gordon D. White & Assoc.—Climax Elementary School, Climax, Colo.
 Edwin A. Francis & Carlyle Guy, Archts.—Widefield Elementary School,
 Security, Colo.
 Alfred Watts Grant & Assoc., Archts.—Chamberlain Elementary School,
 Colorado Springs, Colo.
 The Ohio Oil Co., Research Laboratory, Littleton, Colo.
 Stanley Morse, Archt.—Bertha Heid Elementary School, Thornton, Colo.
 Porter & Porter, Archts.—Veterans Administration Hospital, Cheyenne, Wyo.
 Clark, Stromquist, Ehrlich & Potter, Archts.—Del Mar High School, Campbell,
 Calif.
 Edgar S. Wortman—Palm Beach County Schools and Jr. Col., Palm Beach
 County, Fla.
 Griffin & Gomon—Brevard County Schools, Brevard County, Fla.
 Smith & Korach—Temple Israel, Miami, Fla.
 Watson & Deutschman—Central Catholic High, Daytona Beach, Fla.
 Ralph M. Hartley—St. Mark's Lutheran, Hollywood, Fla.
 Thomas J. Madden, Jr.—St. Vincent Ferrer, Delray Beach, Fla.
 Wm. G. Crawford—Sunrise Jr. High, Ft. Lauderdale, Fla.
 Armstrong & Pryor—Martin County Schools, Martin County, Fla.
 Charles F. McKirahan—Broward County Schools, Broward County, Fla.
 Thomas J. Madden, Jr.—Christ The King, Jacksonville, Fla.
 Bolton & McBryde—Ft. Myers High, Ft. Myers, Fla.
 John A. Burton IV—Seminole County Schools, Seminole County, Fla.
 Griffin & Gomon—Volusia County Schools, Volusia County, Fla.
 Thomas J. Madden, Jr.—Epiphany Parish School, Miami, Fla.
 Irving M. Horsey—Dade County Schools, Miami, Fla.
 Stickle & Associates—Mt. Carmel School, Wickliffe, O.
 Cleveland Board of Education architects—Cleveland, O.
 Fulton-DelaMotte, Larson-Nassau—Fairview High School, Fairview, O.
 Kent University Training School, Kent, O.
 U.S. Army Corps of Engineers—Lockborne Air Force Base, Columbus, O.
 Spahn and Barnes—Shoregate School, Willoughby, O.
 Wm. Boyd Huff, Archt.—Zion Lutheran School, Akron, O.
 Wm. Boyd Huff, Archt.—Akron University, Akron, O.
 Mellenbrook, Foley & Scott, Archts.—Roehm High School, Berea, O.
 Outcalt & Guenther—Hopkins Airport, Cleveland, O.
 Outcalt & Guenther—North High, Eastlake, O.
 Chas. Bacon Rowley—S. Euclid Schools, S. Euclid, O.
 Lawrence & Dykes—Jackson Twp. High School, Canton, O.
 King & Frost—Lexington Twp. High School, Alliance, O.
 Stickle, Kelly & Stickle—St. Benedict's Academy, Erie, Pa.

Joseph Regner & Assocs.—Munson School, Chardon, O.
 Joseph Regner & Assocs.—Sheffield Lake Elementary School
 Joseph Regner & Assocs.—Willoughby Elementary School
 Horn & Reinhardt—St. Christopher, Rocky River, O.
 Thomas Koehl & Assocs.—St. Dominic, Shaker Heights, O.
 Thomas Koehl & Assocs.—St. Ignatius High, Cleveland, O.
 Chas. Bacon Rowley & Assocs. Inc.—Cleveland Public Library
 Burin & Hazen—St. Jude, Elyria, O.
 Heine Crider & Williamson—Helen J. Neeley, Brookpark, O.
 Heine Crider & Williamson—Margaret Raab, Brookpark, O.
 Ward Conrad Schneider & Szabo—East Side Lutheran H. S., Cleveland, O.
 Ward Conrad Schneider & Szabo—West Side Lutheran H. S., Cleveland, O.
 Small Smith Reebe & Draz—Case Institute of Technology, Cleveland, O.
 Garfield Harris Schafer Flynn & Williams—Western Reserve University,
 Cleveland, O.
 Stickle & Assocs.—St. John's College, Cleveland, O.
 Spahn & Barnes—Greenview Jr. High School, S. Euclid, O.
 Perkins & Will—Barrington High School Addn., Barrington, Ill.
 McGuire & Shook—High School Building, Rushville, Ind.
 Walter Scholer—General Science Bldg., Purdue University, Lafayette, Ind.
 Walter Scholer—Spring Hill School, Indianapolis, Ind.
 Walter Scholer—East Street School, Pendleton, Ind.
 Walter Scholer—Indiana Central College, Indianapolis, Ind.
 Walter Scholer—Columbia Elementary School, Rochester, Ind.
 Westlake Jr. High School, Millcreek Twp., Erie, Pa.
 JoAnna Connell School, Erie, Pa.
 Mount Calvary School, Erie, Pa.
 Tracy School, Millcreek Twp., Erie, Pa.
 Montclair School, Millcreek Twp., Erie, Pa.
 Minor Seminary, Erie, Pa.
 Northeast Grade School, Northeast, Pa.
 Bakersfield City Schools, Bakersfield, Calif.
 Orangewood School, Orangewood, Calif.
 Detroit Board of Education—Dixon School, Detroit, Mich.
 Detroit Board of Education—Burroughs, Detroit, Mich.
 Detroit Board of Education—White Special School, Detroit, Mich.
 Detroit Board of Education—Cleveland Jr. High School, Detroit, Mich.
 Frederick Fessler—Keyport Elementary School, Keyport, N. J.
 John Christensen—U.S. Grant School, Chicago, Ill.
 Ballard, Tide & Snibe—P. S. #132, New York City, N. Y.
 Seelig & Finkelstein—P. S. #141, New York City, N. Y.
 N. Y. C. Board of Education—P. S. #100 & #180, New York City, N. Y.
 McCoughey-Erickson—Emerson Jr. H. S.—Niles, Ill.
 Micklewright & Mounford—West Caldwell H. S., Caldwell, N. J.
 Micklewright & Mounford—Brick Twp. Elementary School, Brick Twp., N. J.
 Phillips & Swager—Roosevelt Elementary School, Chicago, Ill.
 Phillips & Swager—Washington Elementary School, Chicago, Ill.
 Coffin, Coffin & Ronfeldt—Swimming River School, Shrewsbury, N. J.
 Beli & Beli—Immaculate Conception School, Chicago, Ill.
 Beli & Beli—St. Beatrice School, Shiller Park, Ill.
 Grellinger & Rose—Congress School, Milwaukee, Wis.
 Spitznagel—Elementary School, Lakefield, Minn.
 James H. Walsh—Elementary School, Alta, Iowa
 Karl Keffer Associates—Elementary School, Scranton, Iowa
 Edwards & Green—Vincetown Elementary School, Vincetown, N. J.
 Bellante & Clause—Childrens Reception Center, Philadelphia, Pa.
 Haag & D'Entremont—Neshaminy Sr. High School, Langhorne, Pa.
 Base Engineers Plans—Classrooms, Keesler AFB, Miss.
 Milton B. E. Hill—Soria City Elem. School, Gulfport, Miss.
 Chris Risher—Old Bay Springs Road Elem. School, Laurel, Miss.
 Bill Archer—Marion County High School, Columbia, Miss.
 H. F. Campbell—De La Salle Collegiate High School, Detroit, Mich.
 Kelly & Gruzen—Johnson Park & Riverside Elementary School, Princeton, N.J.
 Lorimer & Rose—City College of Technology, New York City, N. Y.
 F. A. Ellasser—High School, Union, N. J.
 Paul Canin—S. F. B. Morse School, Poughkeepsie, N. Y.
 Sherwood Mills & Smith—Parkway Elementary School, Greenwich, Conn.
 Hurley & Hughes—St. Sylvester, Staten Island, N. Y.
 DeYoung Moskowitz & Rosenberg—P. S. #296, New York City, N. Y.

ATOMIC ENERGY PROJECTS

A. M. Kinney—Instrument Lab. Bldg., Oak Ridge, Tenn.
 A. M. Kinney—Research Extension Bldg., Oak Ridge, Tenn.
 Adache Associates, Inc.—Union Carbide Corp., Cleveland, O.

OUTSIDE OF U. S. A.

Panama Canal Zone Schools, U. S. Engineers Nuclear Research Center,
 Mayaguez, Puerto Rico
 Keller Hall, University of Hawaii, Honolulu, Hawaii

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